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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/089,213	03/25/2002	Danielle Geertruida Irene Petra	246152016500	3222
7590 11/03/2004			EXAMINER	
Kate H Murashige Morrison & Foerster			CHOI, LING SIU	
Suite 500			ART UNIT	PAPER NUMBER
3811 Valley Ce San Diego, CA			1713	
•			DATE MAILED: 11/03/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	A-dissault)			
		Applicant(s)			
Office Action Summary	10/089,213	PETRA ET AL.			
- Cines risdon Summary	Examiner	Art Unit			
The MAILING DATE of this communication	Ling-Siu Choi	1713			
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	ith the correspondence address			
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by stany reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	NN, R 1.136(a). In no event, however, may a reply within the statutory minimum of thir riod will apply and will expire SIX (6) MON	reply be timely filed ty (30) days will be considered timely. THS from the mailing date of this communication.			
Status					
1) Responsive to communication(s) filed on 13	3 August 2004.				
2a)⊠ This action is FINAL . 2b)□ This action is non-final.					
3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice unde	er <i>Ex part</i> e <i>Quayle</i> , 1935 C.D	. 11, 453 O.G. 213.			
Disposition of Claims					
4) Claim(s) 1-29 is/are pending in the applicati	on				
4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>1-22</u> is/are allowed.					
6)⊠ Claim(s) <u>23-29</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and	d/or election requirement.				
Application Papers					
9)☐ The specification is objected to by the Exami	iner				
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the corre	ection is required if the drawing(s) is objected to See 37 CFR 1 121(d)			
11)☐ The oath or declaration is objected to by the	Examiner. Note the attached	Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for forei﹝ a)⊠ All b)□ Some * c)□ None of:	gn priority under 35 U.S.C. §	119(a)-(d) or (f).			
1. Certified copies of the priority docume	nts have been received.				
Certified copies of the priority docume.	nts have been received in Ap	pplication No			
3.⊠ Copies of the certified copies of the pri	iority documents have been r	eceived in this National Stage			
application from the International Bure	au (PCT Rule 17.2(a)).				
* See the attached detailed Office action for a lis	st of the certified copies not re	eceived.			
Attachment(s)					
Notice of References Cited (PTO-892)	4) 🔲 Interview Su	mmary (PTO-413)			
2) U Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/	Mail Date			
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 	3) 5) ☐ Notice of Info 6) ☐ Other:	ormal Patent Application (PTO-152)			
Patent and Trademark Office OL-326 (Rev. 1-04)	, —				

DETAILED ACTION

1. This Office Action is in response to the Amendment filed August 13, 2004. Claim 23-29 have been added. Claims 1-29 are now pending. In view of the Amendment, claim rejections under second paragraph of 35 USC § 112 and under 35 USC § 103 are moved.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 23-29 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 23, lines 7-8, the recitation "X represents a bond between each adjacent C or spaces each C with a carbon-or heteroatom-containing moiety" cause confusion because X is defined as "nothing,, but may also contain or one or more carbon or heteroatoms, in a ring or not" on lines 24-27 of page 4.

Allowable Subject Matter

Art Unit: 1713

4. Claims 1-29 are allowable over the closest references: Kisch (US 4,325,793).

The present invention relates to a catalyst for asymmetrical hydrogen transfer, comprising,

Α	transition metal compound	iridium, ruthenium, rhodium, or cobalt
В	nitrogen-containing	containing sulphur in the form of a thioether or
	enantiomerically enriched	a sulfoxide and bound to the nitrogen via two or
	ligand	more carbon atoms

(summary of claim 1)

<u>Kisch</u> discloses a catalyst to split water to provide hydrogen under the irradiation with actinic light, comprising a specific metal complex. Kisch further discloses that the metal of the complex is preferably "...W...Re...Co, Ni...Zn...." (col. 1, lines 54-56). However, Kisch does not teach or fairly suggest a catalyst comprising a nitrogen and sulphur-containing **enantiomerically enriched** ligand.

Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ling-Siu Choi whose telephone number is 571-272-1098. The examiner can normally be reached on Monday to Friday

If attempt to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu, can be reach on 571-272-1114.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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LING-SUI CHOI PRIMARY EXAMINER

Ling -Siu Choi

October 25, 2004